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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/712,923	11/13/2003	Takayuki Iwasa	KYO.P0021	9874
7590 10/05/2004			EXAMINER	
RENNER, KENNER, GREIVE, BOBAK,			TON, MINH TOAN T	
TAYLOR & W	EBER			
Fourth Floor			ART UNIT	PAPER NUMBER
First National Tower			2871	•
Akron, OH 4	4308-1456		DATE MAILED: 10/05/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

			((f)
	Application No.	Applicant(s)	W 7
	10/712,923	IWASA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Toan Ton	2871	
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet with th	ne correspondence address	
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a in - If NO period for reply is specified above, the maximum statutory perions - Failure to reply within the set or extended period for reply will, by state any reply received by the Office later than three months after the may be earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply be reply within the statutory minimum of thirty (30) od will apply and will expire SIX (6) MONTHS tute, cause the application to become ABAND	the timely filed days will be considered timely. from the mailing date of this communication. DNED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on			
2a) ☐ This action is FINAL . 2b) ☑ T	his action is non-final.		
3) Since this application is in condition for allow	wance except for formal matters,	prosecution as to the ments is	
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.D. 11	, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-7 is/are pending in the applicatio	n.		
4a) Of the above claim(s) is/are withd	Irawn from consideration.	;	
5) Claim(s) is/are allowed.		₩	
6)⊠ Claim(s) <u>1-7</u> is/are rejected.			
7) Claim(s) is/are objected to.		·	
8) Claim(s) are subject to restriction and	d/or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Exam	iner.		
10)☐ The drawing(s) filed on is/are: a)☐ a			
Applicant may not request that any objection to t			
Replacement drawing sheet(s) including the corr	•	•	•
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached Of	nce Action of form P10-152.	
Priority under 35 U.S.C. § 119			
12) ☐ Acknowledgment is made of a claim for fore a) ☐ All b) ☐ Some * c) ☐ None of:		9(a)-(d) or (f).	
1. Certified copies of the priority docume		action No	
2. Certified copies of the priority docume3. Copies of the certified copies of the p			
application from the International Bur		erved in this reational otage	
* See the attached detailed Office action for a l	• • • • • • • • • • • • • • • • • • • •	eived.	
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview Summ		
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/ 		ail Date nal Patent Application (PTO-152)	
Paper No(s)/Mail Date	6) Other:	TF	

Application/Control Number: 10/712,923 Page 2

Art Unit: 2871

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's Prior Art (APA hereinafter, Figure 1) in view of Niboshi et al (US 6198215).

APA discloses a reflective LCD device comprising all claimed limitations except the antireflection layer having particular characteristics such as a double layer of a metallic film and a silicon oxynitride film.

Niboshi discloses antireflective film comprising a metallic film and a silicon oxynitride film, wherein the refractive index ranges from 1.8 to 3.2 (meeting/overlapping Applicant's range of 1.7-1.9) and 40-60 nm (meeting Applicant's range of 400- 600 Angstroms). Niboshi discloses that such antireflective film achieves advantages such as the intensity of reflected light can be sufficiently suppressed. Therefore, it would have been obvious to one of ordinary skill in the art to employ the antireflective film comprising particular characteristics such as a metallic film and a silicon oxynitride film, the refractive index ranges from 1.8 to 3.2 (meeting/overlapping Applicant's range of 1.7-1.9) and 40-60 nm (meeting Applicant's range of 400- 600 Angstroms), for achieving advantages such as the intensity of reflected light can be sufficiently suppressed.

Niboshi discloses several metallic materials such as Mo, Al, Ta, Ni (Ti would appear to be at least functionally-equivalent to one of these metallic materials).

Application/Control Number: 10/712,923 Page 3

Art Unit: 2871

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Contact Information

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Toan Ton whose telephone number is (571) 272-2303.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

September 30, 2004

PRIMARY EXAMINER